HIROSHIGE, et al
IMAGE PROCESSING METHOD, RECORDING MEDIUM, AND IMAGE PROCESSING APPARATUS
USSN. 10/090,168
Darryl Mexic
202-293-7060
1 of 7



FIG. 1

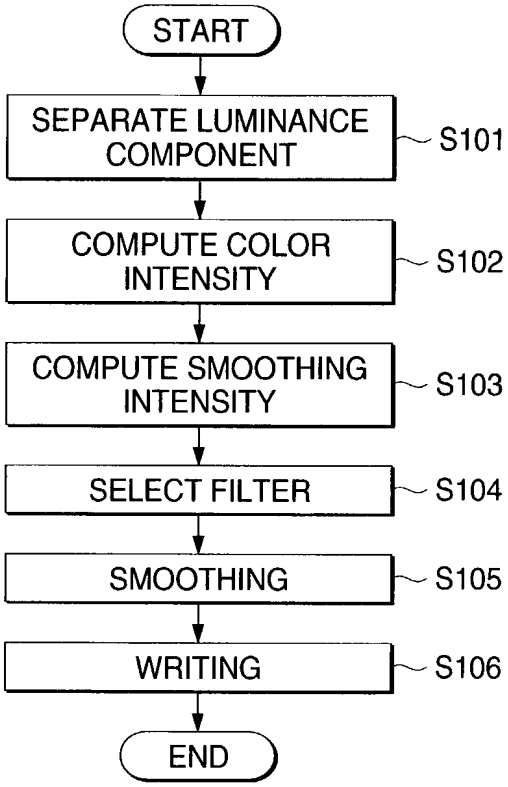



FIG. 2

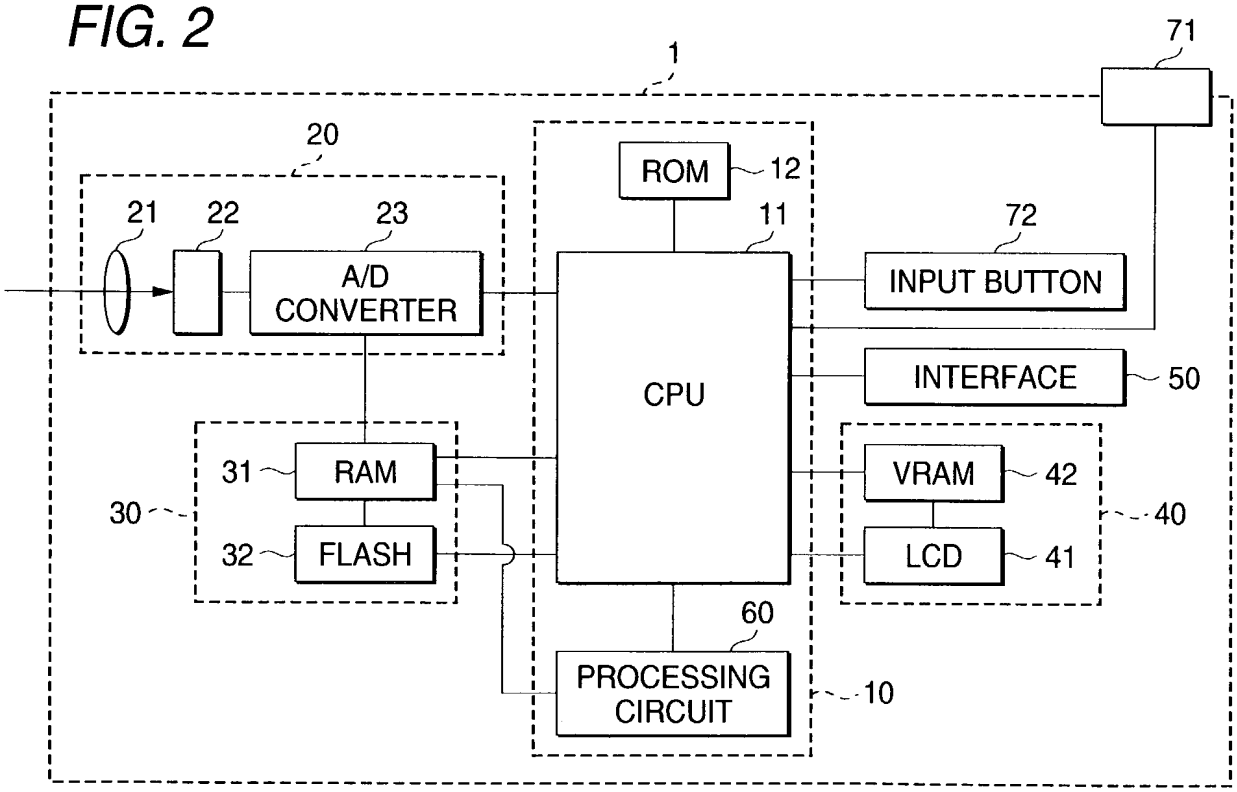


FIG. 3

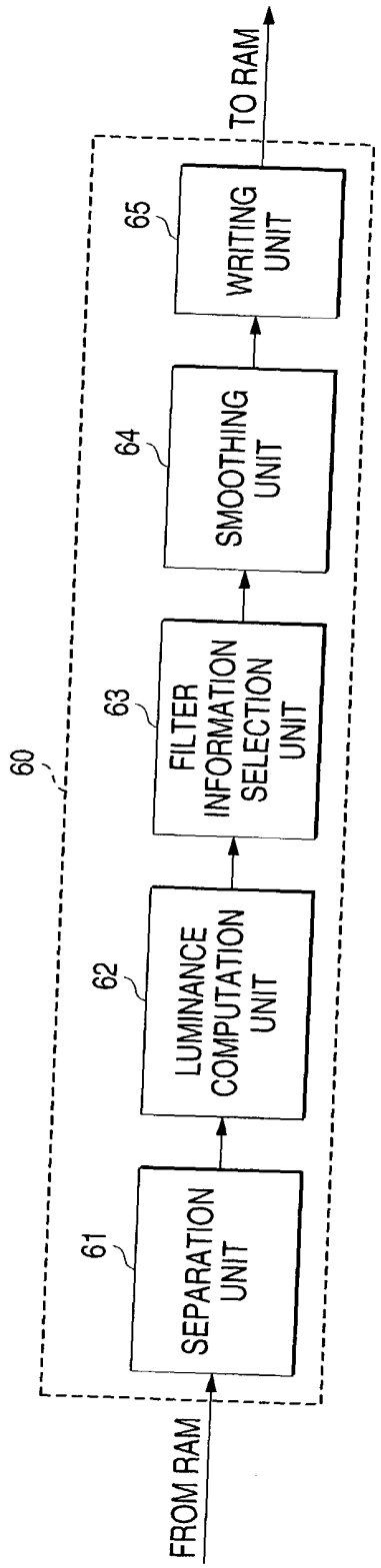

FROM RAM
60
61
SEPARATION UNIT
62
LUMINANCE COMPUTATION UNIT
63
FILTER INFORMATION SELECTION UNIT
64
SMOOTHING UNIT
65
WRITING UNIT
TO RAM

FIG. 4

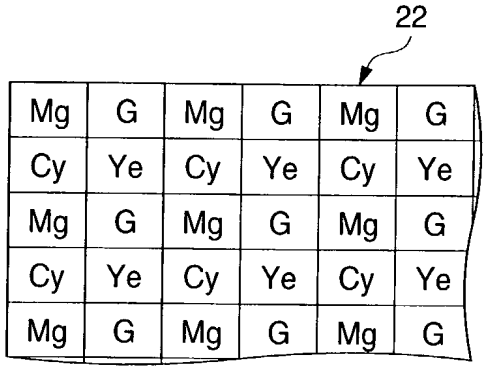



FIG. 5

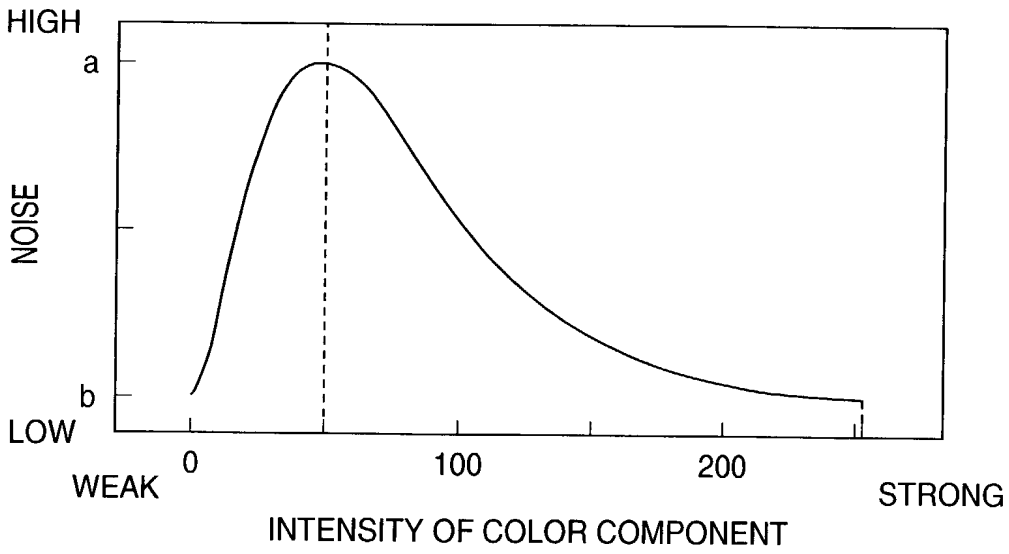
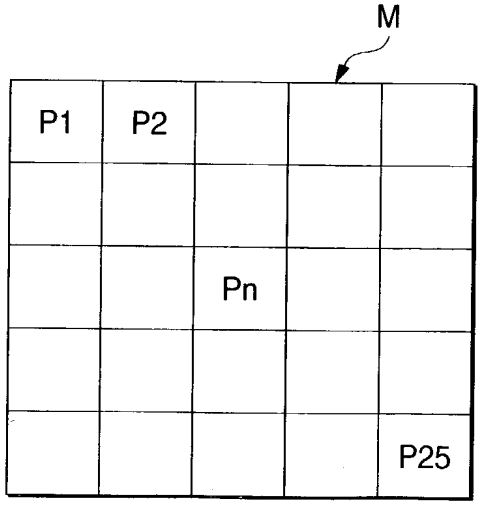



FIG. 6



# FIG. 7

$\sigma = 0.5$

| | | | | |
|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 |
| 0 | 3 | 21 | 3 | 0 |
| 0 | 21 | 158 | 21 | 0 |
| 0 | 3 | 21 | 3 | 0 |
| 0 | 0 | 0 | 0 | 0 |

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$\sigma = 1$

| | | | | |
|---|---|---|---|---|
| 1 | 3 | 6 | 3 | 1 |
| 3 | 15 | 25 | 15 | 3 |
| 6 | 25 | 41 | 25 | 6 |
| 3 | 15 | 25 | 15 | 3 |
| 1 | 3 | 6 | 3 | 1 |

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$\sigma = 2$

| | | | | |
|---|---|---|---|---|
| 6 | 9 | 10 | 9 | 6 |
| 9 | 13 | 14 | 13 | 9 |
| 10 | 14 | 16 | 14 | 10 |
| 9 | 13 | 14 | 13 | 9 |
| 6 | 9 | 10 | 9 | 6 |

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$\sigma = 3$

| | | | | |
|---|---|---|---|---|
| 8 | 10 | 10 | 10 | 8 |
| 10 | 11 | 12 | 11 | 10 |
| 10 | 12 | 13 | 12 | 10 |
| 10 | 11 | 12 | 11 | 10 |
| 8 | 10 | 10 | 10 | 8 |

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$\sigma = 4$

| | | | | |
|---|---|---|---|---|
| 9 | 10 | 10 | 10 | 9 |
| 10 | 11 | 11 | 11 | 10 |
| 10 | 11 | 12 | 11 | 10 |
| 10 | 11 | 11 | 11 | 10 |
| 9 | 10 | 10 | 10 | 9 |

/256

$\sigma = 5$

| | | | | |
|---|---|---|---|---|
| 9 | 10 | 10 | 10 | 9 |
| 10 | 11 | 11 | 11 | 10 |
| 10 | 11 | 11 | 11 | 10 |
| 10 | 11 | 11 | 11 | 10 |
| 9 | 10 | 10 | 10 | 9 |

/255

$\sigma = 6$

| | | | | |
|---|---|---|---|---|
| 10 | 10 | 10 | 10 | 10 |
| 10 | 11 | 11 | 11 | 10 |
| 10 | 11 | 11 | 11 | 10 |
| 10 | 11 | 11 | 11 | 10 |
| 10 | 10 | 10 | 10 | 10 |

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$\sigma = 9$

| | | | | |
|---|---|---|---|---|
| 10 | 10 | 10 | 10 | 10 |
| 10 | 10 | 10 | 10 | 10 |
| 10 | 10 | 10 | 10 | 10 |
| 10 | 10 | 10 | 10 | 10 |
| 10 | 10 | 10 | 10 | 10 |

/250

FIG. 8

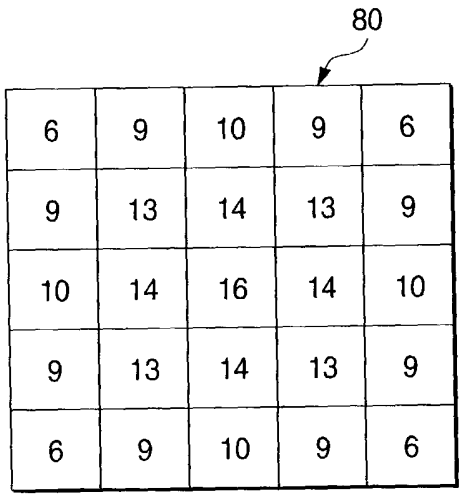


FIG. 9

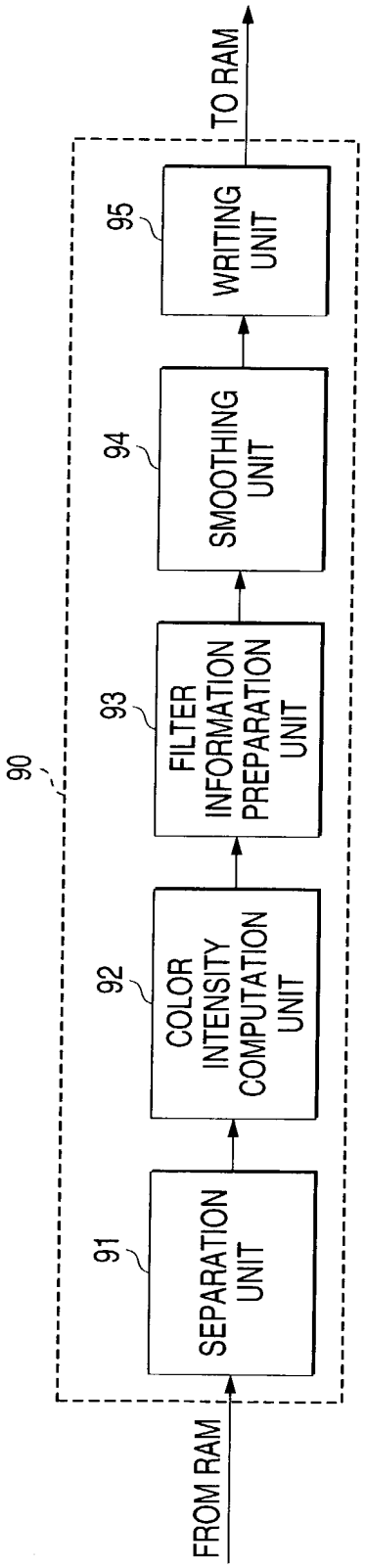
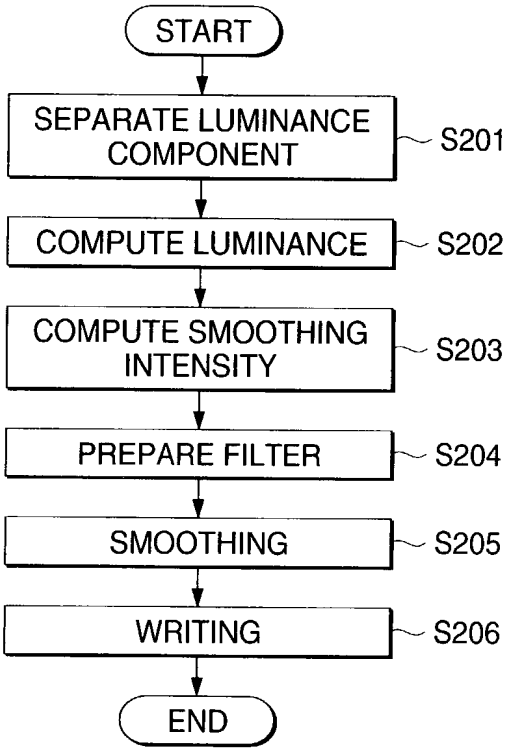

FROM RAM
90
91
SEPARATION UNIT
92
COLOR INTENSITY COMPUTATION UNIT
93
FILTER INFORMATION PREPARATION UNIT
94
SMOOTHING UNIT
95
WRITING UNIT
TO RAM

FIG. 10


START
SEPARATE LUMINANCE COMPONENT
S201
COMPUTE LUMINANCE
S202
COMPUTE SMOOTHING INTENSITY
S203
PREPARE FILTER
S204
SMOOTHING
S205
WRITING
S206
END